

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An air treatment system for a vehicle, comprising: in particular a motor vehicle,

[[-]] having a ducting system configured to direct (2) for directing a current of air [[(17)],] which has at least one fresh air inlet opening [[(6)]] that communicates with [[the]] surroundings [[(7)]] of the vehicle and/or at least one inlet opening for recirculated air that communicates with an interior [[(9)]] of the vehicle which is to be air-conditioned, and at least one outlet opening [[(10)]] that communicates with the vehicle interior [[(9)],]

[[-]] having an oxidation device [[(41)]] which functions electrically and breaks down odorous substances and/or pollutants contained in the current of air [[(17)]] by oxidation,

wherein the oxidation device comprises at least one ozone generator for generating ozone in the current of air, and

at least one catalyzer configured to break down the ozone contained in the current of air arranged downstream of the ozone generator,

wherein the air treatment system is configured to be operated in a purification mode in which the ozone generator is active and enriches the current of air with ozone, wherein the current of air in the purification mode is directed so that the current of air reaching the at least one outlet opening first flows through the catalyzer,

wherein the ozone generator is a first ozone generator that is arranged upstream of the catalyzer and is active in the purification mode, wherein a second ozone generator is also provided which is arranged downstream of the catalyzer and is active in a sterilization mode,

wherein the air treatment system is configured to be operated in the sterilization mode such that the second ozone generator is active and enriches the current of air with ozone,

wherein a first baffle device is provided, which in the sterilization mode directs the current of air so that no ozone-charged air enters the vehicle interior through the at least one outlet opening.

2. (Canceled)

3. (Currently Amended) The air treatment system as claimed in claim 1 [[2]], wherein the air treatment system is configured ~~characterized in that the ozone generator (22,23) is designed~~ so that in operation the ozone generator [[it]] only generates just enough ozone to ensure that, even if there are no odorous substances or pollutants in the current of air [[17]] or no microorganisms present on [[the]] surfaces exposed to the current of air [[17]],

wherein [[the]] surfaces on which the current of air [[17]] impinges are sufficiently large to bring about a breakdown of the ozone thereon which will reduce an [[the]] ozone content of the current of air [[17]] to or below a predefined limit before the current of air [[17]] enters the vehicle interior [[9]] through the at least one outlet opening ~~openings~~ ~~(10)~~.

4. (Canceled)

5. (Currently Amended) The air treatment system as claimed in claim 1 [[4]], wherein ~~characterized in that the catalyzer is (25) takes the form of a sorption catalyzer.~~

6. (Currently Amended) The air treatment system as claimed in claim 4, wherein ~~characterized in that the air treatment system (1) may be operated in a purification mode in which the ozone generator (22) is active and enriches the current of air (17) with ozone, the current of air (17) in the purification mode~~ the current of air is [[being]] directed so that the entire current of air [[17]] reaching the at least one outlet opening ~~opening(s) (10)~~ first flows through the catalyzer [[25]].

Claims 7-9. (Canceled)

10. (Currently Amended) The air treatment system as claimed in claim 11 [[9]], further comprising ~~characterized in that~~ a second baffle device that ~~(37) is provided, which in the sterilization mode is configured to direct~~ directs the current of air [[17]] so that the current of air [[this]] completely or substantially bypasses the catalyzer [[25]].

11. (Currently Amended) An ~~[[The]]~~ air treatment system for a vehicle, comprising: as claimed in claim 9, characterized in that

a ducting system configured to direct a current of air which has at least one fresh air inlet opening that communicates with surroundings of the vehicle and/or at least one inlet opening for recirculated air that communicates with an interior of the vehicle which is to be air-conditioned, and at least one outlet opening that communicates with the vehicle interior,

an oxidation device which functions electrically and breaks down odorous substances and/or pollutants contained in the current of air by oxidation,

wherein the oxidation device comprises at least one ozone generator for generating ozone in the current of air, and

at least one catalyzer configured to break down the ozone contained in the current of air arranged downstream of the ozone generator,

wherein the air treatment system is configured to be operated in a purification mode in which the ozone generator is active and enriches the current of air with ozone, wherein the current of air in the purification mode is directed so that the current of air reaching the at least one outlet opening first flows through the catalyzer,

wherein a common ozone generator is provided for both the purification mode and a sterilization mode, wherein the catalyzer can be deactivated for the sterilization mode,

wherein the catalyzer is configured to (25) can be displaced switched between an active position assigned to the purification mode[[,]] in which the catalyzer ~~[[(25)]]~~ projects into a flow path ~~[[(32)]]~~ of the ozone-enriched current of air ~~[[(17)]]~~ and through which the ozone-enriched current of air latter flows, and a passive position assigned to the sterilization mode[[,]] in which the catalyzer ~~[[(25)]]~~ is completely or substantially removed from the flow path ~~[[(32)]]~~ and is entirely or substantially bypassed by the ozone-enriched current of air ~~[[(17)]]~~.

12. (Currently Amended) The air treatment system as claimed in claim 1 ~~[[7]]~~, wherein characterized in that the first baffle device includes (26) has a switch element ~~[[(27),]]~~ which is arranged upstream of a distributor chamber ~~[[(16),]]~~ from which the conditioned current of air ~~[[(17)]]~~ is directed to the at least one outlet opening ~~[[(10)]]~~, wherein and which in the

sterilization mode the switch element is configured to shut ~~[[shuts]]~~ off ~~[[the]]~~ air supply to the distributor chamber ~~[[16]]~~.

13. (Currently Amended) The air treatment system as claimed in claim 1 ~~[[7]]~~, wherein ~~characterized in that~~ the first baffle device includes ~~(26)~~ has a separate switch element ~~[[27]]~~ for each outlet opening ~~[[10]]~~, wherein ~~[[which]]~~ in the sterilization mode the switch elements are configured to shut ~~[[shuts]]~~ off ~~[[the]]~~ air supply to a the respective outlet opening ~~[[10]]~~.

14. (Currently Amended) The air treatment system as claimed in claim 12, wherein ~~characterized in that~~ in the sterilization mode the switch element is configured to open ~~(27)~~ opens an outlet air path ~~[[30]]~~, which directs the current of air ~~[[17]]~~ into the surroundings ~~[[7]]~~ of the vehicle and/or returns it into the ducting system ~~[[2]]~~ upstream of a ~~[[the]]~~ blower ~~[[3]]~~, the switch element is configured to close ~~(27)~~ closing the outlet air path during ~~(30)~~ in normal operation of the air treatment system ~~[[1]]~~.

15. (Currently Amended) The air treatment system as claimed in claim 1, wherein ~~characterized in that~~ the oxidation device comprises ~~(41)~~ has at least one photocatalyzer device, wherein the photocatalyzer device ~~(43)~~, ~~which~~ comprises at least one UV-emitter ~~[[44]]~~ and at least one catalyzer ~~[[45]]~~ in the form of a photocatalyzer and ~~which~~ causes UV radiation to act upon at least one photocatalyzer ~~[[45]]~~ in order to oxidize ~~[[the]]~~ odorous substances and/or pollutants.

16. (Currently Amended) The air treatment system as claimed in claim 15, wherein ~~characterized in that~~ the photocatalyzer is ~~(45)~~ ~~takes the form of~~ an oxidation catalyzer.

17. (Currently Amended) The air treatment system as claimed in claim 1 ~~[[4]]~~, characterized in that the catalyzer ~~[[25]]~~ is integrated into an existing component ~~(2,3,4,5)~~ of the air treatment system, wherein the ~~[[this]]~~ component is ~~[[being]]~~ exposed to the current of air ~~[[17]]~~ and/or has ~~having~~ the current of air ~~[[17]]~~ flowing through it.

18. (Currently Amended) The air treatment system as claimed in claim 17, wherein ~~characterized in that~~ the catalyzer ~~[[25]]~~ is integrated into a blower configured to generate ~~(3) for generating~~ the current of air ~~[[17]]~~, and/or into a heating device configured to heat ~~(5) for heating~~ the current of air ~~[[17]]~~, and/or into the cooling device configured to cool ~~(4) for cooling~~ the current of air ~~[[17]]~~ and/or into at least one wall section of the ducting system ~~[[2]]~~.

19. (Currently Amended) The air treatment system as claimed in claim 17, wherein ~~characterized in that~~ the integration of the catalyzer ~~[[25]]~~ into the ~~respective~~ component ~~(2,3,4,5)~~ is configured such achieved ~~[[-]]~~ in that a surface of the ~~respective~~ component ~~(2,3,4,5)~~ is exposed to the current of air and ~~[[17]]~~ is coated with a suitable catalytic material and/or, such ~~[[-]]~~ in that the ~~respective~~ component is composed of a suitable catalytic material ~~(2,3,4,5)~~, at least in an area exposed to the current of air ~~(17)~~, ~~is composed of a suitable catalytic material.~~

20. (Currently Amended) The air treatment system as claimed in claim 1 ~~[[4]]~~, wherein ~~characterized in that~~ the catalyzer ~~[[25]]~~ is arranged upstream of a distributor chamber ~~[[16)]]~~ from which an air-conditioned ~~whence the conditioned~~ current of air ~~[[17]]~~ is directed to the at least one outlet opening ~~[[10)]]~~.

21. (Currently Amended) ~~The Use of an electrically functioning oxidation device (41) in an~~ air treatment system ~~[[1]]~~ of claim 1, wherein the air treatment system is configured to break ~~a vehicle, in particular a motor vehicle, for breaking down~~ odorous substances and pollutants by ~~means of~~ oxidation in the ~~[[a]]~~ current of air that ~~(17)~~, ~~which~~ is directed from the air treatment system ~~[[1]]~~ into the ~~[[an]]~~ interior ~~[[9)]]~~ of the vehicle.

22. (Currently Amended) ~~The Use of an electrically functioning oxidation device (41) in an~~ air treatment system ~~[[1]]~~ of claim 1, wherein the air treatment system is configured to sterilize ~~a vehicle, in particular a motor vehicle, for sterilizing~~ components ~~(2,3,4,5)~~ of the air treatment system ~~[[1]]~~ which are exposed to a current of air ~~[[17]]~~, wherein ~~[[which]]~~ in

normal operation the current of air is directed from the air treatment system ~~[(1)]~~ into the ~~[[an]]~~ interior ~~[(9)]~~ of the vehicle.

23. (Canceled)

24. (Canceled)

25. (New) The air treatment system as claimed in claim 1, wherein the oxidation device is an electrical oxidation device.

26. (New) The air treatment system as claimed in claim 11, wherein in the purification mode the current of air is directed so that the entire current of air reaching the at least one outlet opening first flows through the catalyzer.